

Recombinant Human SMAD Family Member 5, GST-tagged

Cat. No. SMAD5-1493H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SMAD5 was expressed in <i>E. coli</i> cells using an N-terminal GST tag. MW = 82 kDa.
Species	Human
Source	<i>E. coli</i>
Description	SMAD5 is a member of the SMAD family and mediates signaling by the transforming growth factor-beta (TGF β) superfamily and related ligands. SMAD5 plays a critical role in the signaling pathway by which TGF β inhibits the proliferation of human hematopoietic progenitor cells. SMAD5 is up-regulated in gastric epithelial cells during the infection of the pathogen <i>Helicobacter pylori</i> and it mediates apoptosis of gastric epithelial cells induced by <i>H. pylori</i> infection. In mature human B cells, bone morphogenetic protein 6 (BMP-6) inhibits cell growth and rapidly induces phosphorylation of SMADs 5 and 8.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

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Gene Name	SMAD5 SMAD family member 5 [Homo sapiens]
Synonyms	SMAD5; SMAD family member 5; Dwfc; JV5-1; MADH5; DKFZp781C1895; DKFZp781O1323; MAD homolog 5; SMA- and MAD-related protein 5; SMAD, mothers against DPP homolog 5; mothers against decapentaplegic homolog 5; MAD, mothers against decapentaplegic homolog 5; mothers against decapentaplegic, drosophila, homolog of, 5; MAD, mothers against decapentaplegic homolog 5 (Drosophila); SMAD, mothers against DPP homolog 5 (Drosophila); Mothers against DPP homolog 5; SMAD 5; Smad5; hSmad5; mothers against decapentaplegic, drosophila, homolog of, 5
Gene ID	4090
mRNA Refseq	NM_001001419
Protein Refseq	NP_001001419
MIM	603110
UniProt ID	Q99717
Chromosome Location	5q31
Pathway	TGF-beta signaling pathway
Function	protein binding; receptor signaling protein activity; transcription activator activity; transcription factor activity; transforming growth factor beta receptor, pathway-specific cytoplasmic mediator activity

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